

IN THE CLAIMS

Please cancel claims 2 and 10 without prejudice, and amend claims 1, 9, 13, 15, 17, 19, 21 and 25 as follows:

1 1. (Currently amended) Transmission system comprising a
2 transmitter with an encoder for encoding an audio signal, the
3 encoder comprises frequency determining means for determining a
4 frequency of at least one periodical component of the audio signal,
5 the transmitter further comprises transmitting means for
6 transmitting a signal representing said frequency to a receiver,
7 said receiver comprises receiving means for receiving a signal
8 representing said frequency from the transmitter, and a decoder for
9 deriving a reconstructed audio signal on the basis of said
10 frequency, wherein the encoder further comprises frequency change
11 determining means for determining a frequency change of said at
12 least one periodical component of the audio signal over a
13 predetermined amount of time to be used by said decoder for
14 deriving said reconstructed audio signal, wherein the transmitting
15 means transmit a further signal representing said frequency change
16 to the receiver, and the receiver receives said further signal, the

17 decoder deriving said reconstructed audio signal also on basis of
18 said frequency change.

Claim 2 (canceled)

1 3. (Previously presented) Transmission system according to
2 claim 1, wherein the encoder comprises means for determining a
3 fundamental frequency from the audio signal using said frequency
4 change.

1 4. (Previously presented) Transmission system according to
2 claim 1, wherein the encoder comprises time transforming means for
3 obtaining a time transformed audio signal, wherein the time
4 transforming means are arranged for time compressing the audio
5 signal during a first part of the predetermined amount of time and
6 for time expanding the audio signal during a second part of the
7 predetermined amount of time in such a way that the time
8 transformed audio signal has a smaller frequency change than the
9 audio signal.

1 5. (Previously presented) Transmission system according to
2 claim 1, wherein the frequency change determining means comprise
3 time transform determining means for deriving a plurality of time
4 transformed audio signals, each corresponding to a different time
5 transform, and wherein the time transform determining means
6 comprise selection means for selecting the time transform
7 corresponding to the time transformed audio signal having a
8 smallest frequency change over said predetermined amount of time.

1 6. (Previously presented) Transmission system according to
2 claim 5, wherein the time transform determining means are arranged
3 for selecting the time transformed audio signal having the smallest
4 frequency change over said predetermined amount of time by
5 selecting the time transformed audio signal having the highest peak
6 in its autocorrelation function.

1 7. (Previously presented) Transmission system according to
2 claim 4, wherein the time transform is defined by a quadratic
3 relation between the actual time and the transformed time.

1 8. (Previously presented) Transmission system according to
2 claim 7, wherein the relation between the actual time t and the
3 transformed time τ is defined by $\tau(t) = \frac{a}{T} \cdot t^2 + (1-a) \cdot t$; $0 \leq t \leq T$ in which
4 a is a parameter defining the time transform and T is the duration
5 of a signal segment.

1 9. (Currently amended) Transmitter with an encoder for encoding
2 an audio signal, the encoder comprises frequency determining means
3 for determining a frequency of at least one periodical component of
4 the audio signal, the transmitter further comprises transmitting
5 means for transmitting a signal representing said frequency,
6 wherein the encoder further comprises frequency change determining
7 means for determining a frequency change of said at least one
8 periodical component of the audio signal over a predetermined
9 amount of time to be used by a decoder for deriving said
10 reconstructed audio signal, wherein the transmitting means transmit
11 a further signal representing said frequency change.

Claim 10 (canceled)

1 11. (Previously presented) Transmitter according to claim 9,
2 wherein the encoder comprises means for determining a fundamental
3 frequency from the audio signal under use of said change of said
4 fundamental frequency over a predetermined amount of time.

1 12. (Previously presented) Transmitter according to claim 9,
2 wherein the encoder comprises time transforming means for obtaining
3 a time transformed audio signal, wherein the time transforming
4 means are arranged for time compressing the audio signal during a
5 first part of the predetermined amount of time and for time
6 expanding the audio signal during a second part of the
7 predetermined amount of time in such a way that the time
8 transformed audio signal has a smaller frequency change than the
9 audio signal.

1 13. (Currently amended) Receiver comprising receiving means
2 for receiving an encoded audio signal representing an audio signal
3 by at least a frequency of at least one periodical component of the
4 audio signal, and a decoder for deriving a reconstructed audio
5 signal on the basis of said frequency, wherein the receiver ~~is~~
6 ~~arranged for receiving~~ receives a further signal representing a

7 frequency change of said at least one periodical component of said
8 audio signal over a predetermined amount of time, and the decoder
9 is arranged for deriving said reconstructed audio signal also on
10 the basis of said frequency change.

1 14. (Previously presented) Receiver according to claim 13,
2 wherein the decoder comprises time transforming means for obtaining
3 the reconstructed audio signal by time transforming a decoded
4 signal wherein the time transforming means are arranged for time
5 expanding the decoded signal during a first part of the
6 predetermined amount of time and for time compressing the decoded
7 signal during a second part of the predetermined amount of time in
8 such a way that the time transformed decoded signal has a larger
9 frequency change than the decoded signal.

1 15. (Currently amended) Encoder for encoding an audio signal,
2 the encoder comprises means for determining a frequency of at least
3 one periodical component of the audio signal, and for deriving a
4 signal representing said frequency, wherein the encoder further
5 comprises frequency change determining means for determining a
6 further signal representing a frequency change of said at least one

7 periodical component over a predetermined amount of time ~~to be used~~
8 ~~by a decoder for deriving said audio signal, wherein said further~~
9 signal is transmitted to a decoder for deriving said audio signal
10 from said further signal.

1 16. (Previously presented) Encoder according to claim 15,
2 wherein the encoder comprises time transforming means for obtaining
3 a time transformed audio signal, wherein the time transforming
4 means are arranged for time compressing the audio signal during a
5 first part of the predetermined amount of time and for time
6 expanding the audio signal during a second part of the
7 predetermined amount of time in such a way that the time
8 transformed audio signal has a smaller frequency change than the
9 audio signal.

1 17. (Currently amended) Decoder for deriving a reconstructed
2 audio signal from an encoded audio signal representing said audio
3 signal by at least a frequency of at least one periodical component
4 of the audio signal, ~~and a said decoder for deriving a the~~
5 reconstructed audio signal on the basis of said frequency, wherein
6 the decoder ~~is arranged for deriving~~ drives said reconstructed

7 audio signal also on the basis of a further signal representing a
8 frequency change of said at least one periodical component over a
9 predetermined amount of time, said further signal being received
10 from a transmitter.

1 18. (Previously presented) Decoder according to claim 17,
2 wherein the decoder comprises time transforming means for obtaining
3 the reconstructed audio signal by time transforming a decoded
4 signal wherein the time transforming means are arranged for time
5 expanding the decoded signal during a first part of the
6 predetermined amount of time and for time compressing the decoded
7 signal during a second part of the predetermined amount of time in
8 such a way that the reconstructed audio signal has a larger
9 frequency change than the decoded signal.

1 19. (Currently amended) Method for encoding an audio signal
2 comprising determining a frequency of at least one periodical
3 component, deriving a signal representing said frequency of at
4 least one periodical component of the audio signal, and determining
5 a further signal representing a frequency change of said at least
6 one periodical component of the audio signal over a predetermined

7 amount of time to be used by a decoder for deriving said audio
8 signal, wherein said signal and said further signal are transmitted
9 to a decoder for deriving said audio signal from said signal and
10 said further signal.

1 20. (Previously presented) Method according to claim 19,
2 further comprising deriving a time transformed audio signal, and
3 time compressing the audio signal during a first part of the
4 predetermined amount of time and for time expanding the audio
5 signal during a second part of the predetermined amount of time in
6 such a way that the time transformed audio signal has a smaller
7 frequency change than the audio signal.

1 21. (Currently amended) Method for deriving a reconstructed
2 audio signal from an encoded audio signal representing ~~said an~~
3 audio signal by at least a frequency of at least one periodical
4 component of the audio signal, and a decoder for deriving a said
5 reconstructed audio signal on basis of a frequency signal
6 representing said frequency, wherein the method comprises deriving
7 said reconstructed audio signal also on basis of a further signal
8 representing a frequency change of said at least one periodical

9 component of the audio signal over a predetermined amount of time,
10 wherein said frequency signal and said further signal are
11 transmitted to said decoder for deriving said audio signal from
12 said frequency signal and said further signal.

1 22. (Previously presented) Method according to claim 21,
2 further comprising deriving the reconstructed audio signal by a
3 time transforming of a decoded signal wherein the time transforming
4 comprises time expanding the decoded signal during a first part of
5 the predetermined amount of time and for time compressing the
6 decoded signal during a second part of the predetermined amount of
7 time in such a way that the time transformed decoded signal has a
8 larger frequency change than the decoded signal.

1 23. (Previously presented) Storage medium carrying a computer
2 program for performing a method according to claim 19.

1 24. (Previously presented) Signal carrying a computer program
2 for performing a method according to claim 19.

1 25. (Currently amended) Encoded audio signal representing said
2 audio signal by at least a frequency of at least one periodical
3 component of the audio signal, wherein the encoded audio signal
4 comprises a further signal component representing a frequency
5 change of said at least one periodical component over a
6 predetermined amount of time ~~to be used by a decoder for deriving~~
7 ~~said audio signal~~, wherein said further signal is transmitted to a
8 decoder for deriving said audio signal from said further signal.

1 26. (original) Storage medium carrying an encoded audio signal
2 according to claim 23.